



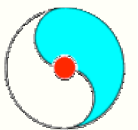
Run-6

Abhay Deshpande

Stony Brook University & RBRC

PHENIX Run-6 Coordinator

Time Meeting on December 27, 2005



Picture taken on Dec. 22 near the RHIC Ring!

2



PHENIX Run-6 Schedule

- PHENIX is extremely happy at the prospect of Run-6
- We will make every attempt to the make most out of this run in spite of the short preparation time
- What is going on at PHENIX now?
 - Recovery from an Water-In-Dry-Airlines accident
 - Significant work and hardship for affected subgroups
 - Good news so far
- Estimated date for readiness

The Accident & Recovery

- Hundreds of gallons of water in PHENIX dry air lines!
- Affected systems **BBC** and **MuTRK**
- Recovery of BBC
 - BBC arrays taken to building 510, disassembled, dried and individual crystals have been tested
 - **All crystals tested “good”**
 - BBC are reassembled and are awaiting installation
- Recovery of MuTRK
 - Visual inspections, water removed from accessible dry air lines & currently pumping the remaining lines.
 - MuTRK (group) will arrive at BNL **Jan 3, 2006** and will inspect/disassemble electronics and then systematically power MuTRK with HV and LV
 - Gas flowing tests before HV tests. Do not have enough Ar. Emergency orders this week for Ar

Then what?

- We have a good estimate for time taken for:
 - Lampshades off
 - East Carriage roll in
 - Safety systems checked out
 - Readiness to close the shield wall
 - **3 weeks**
- If MuTRK recovery takes longer then we will have to decide: what fraction of Run-6 will we run **without** what fraction of MuTRK.
 - However since PHENIX was not responsible for the water in lines accident, we expect that the “**Start of Run**” decision will accommodate a full recovery from this incident if a “**reasonable**” delay would allow for the complete repair

When will we be ready?

- Earliest PHENIX would be ready for shield wall is **February 3**
 - Assumes MuTracker does not require water out
- Latest we could be ready for shield wall is **February 15**
 - Allows time needed to get water out of MuTracker or install the alternate source for dry air
 - If more extensive repairs are necessary we will make a decision on February 15th: **to run with a fraction of MuTracking that is working and implement the rest later**

Backup Slides

Phenix Physics Discussions

- THESE ARE DISCUSSIONS ONLY, NOT OUR PLANS!
- Assumes it is going to be a short run (20 Cryo Weeks)
- 5.5 for CAD startup, cool down etc.
- Proton-Proton collisions only for 14 weeks:
 - 22 GeV (polarized ?) **1.5 weeks**
 - 63 GeV CM (polarized ?) **3.0 weeks**
 - 200 GeV CM (polarized) **8 weeks (rad + long)**
 - 4 (rad) +4 (long)? Not sure, depends on polarization (0.5 or 0.7)
 - 500 GeV CM (polarized) **2 weeks**